

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended): A method for controlling a system to achieve desired operating results, the system controlled by a control system, wherein an operator of the system is operable to provide setpoints defining desired operating goals of the system, comprising the steps of:

measuring select operating parameters of the system;

5 providing a plurality of transforms that define select setpoints to be input by the operator of the system as a function of the measured select operating parameters, wherein each of the transforms is associated with a portion of the measured select operating parameters and with a predetermined condition of the system that is a function of the portion of the measured select operating parameters, and each of the transforms has embedded therein intuitive actions taken by actual operators of the  
10 system to provide setpoints for an associated condition, and wherein each of the transforms is operable to determine if the predetermined and associated condition exists in the system, which would warrant an associated setpoint being set;

processing the measured select operating parameters through the associated transforms to determine for each of the transforms if the associated condition is present; [[and]]

15 providing to the operator an indication that the condition associated with any of the transforms is present and for which transform; and

suggesting to the operator the setpoint to be set for the associated indication and a suggested value thereof.

2. (Previously Presented): The method of Claim 1, and further comprising the step of controlling the operation of the system in accordance with one of the suggested setpoints by setting one or more of the setpoints suggested to the operator.

3. (Currently Amended): The method of Claim 1, wherein the step of [[the]] providing an indication comprises activating a panel display to provide a visual display to the operator which is able to indicate to the operator which of the transforms had the associated conditions met.

4. (Previously Presented): The method of Claim 3, wherein the step of suggesting comprises generating a report to the operator defining suggested control steps to be taken for the operation of the system.

5. (Previously Presented): The method of Claim 1, wherein the transforms comprise a set of rules determined by a history of operation of the system to achieve in part the desired operating results.

6. (Previously Presented): The method of Claim 5, wherein the step of providing the transforms comprises:

assembling a history of various observations of the operation of the system and setpoints to be set that have been observed to achieve a move of the system toward the desired operating results;

5 defining a decision tree that has embedded therein measurable variables of the system and/or inputs to the system and logic steps to define each of the assembled observations; and

fixing the decision tree path into a fixed rule as a transform operating on the associated measurable variables of the system and/or inputs to the system.

7. (Previously Presented): The method of Claim 1, wherein one of the select operating parameters of the system is a commercial operating parameter that defines the commercial operation of the system.

8. (Previously Presented): The method of Claim 7, wherein the system is a power system and the commercial aspect constitutes the cost of generating power.